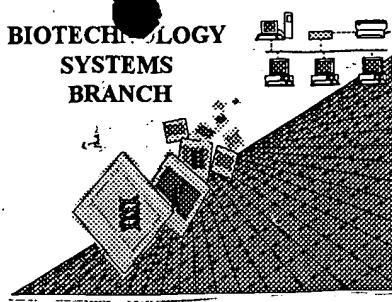


OS 90  
CD17

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/942,252

Source: O1PE

Date Processed by STIC: 9/18/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/942,252

DATE: 09/18/2001  
TIME: 11:25:53

Input Set : A:\GENO 2002 Sequence Listing.txt  
Output Set: N:\CRF3\09182001\I942252.raw

P.4  
Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Messier, Walter  
4 Sikela, James M  
6 <120> TITLE OF INVENTION: Methods to Identify Polynucleotide and Polypeptide  
7 Sequences Which May Be Associated with Physiological  
8 and Medical Conditions  
10 <130> FILE REFERENCE: GENO 200.2/CIP  
OK> 12 <140> CURRENT APPLICATION NUMBER: US/09/942,252  
13 <141> CURRENT FILING DATE: 2001-08-28  
15 <150> PRIOR APPLICATION NUMBER: 09/591,435  
16 <151> PRIOR FILING DATE: 2000-06-09  
18 <150> PRIOR APPLICATION NUMBER: 09/240,915  
19 <151> PRIOR FILING DATE: 1999-01-29  
21 <150> PRIOR APPLICATION NUMBER: 60/073,263  
22 <151> PRIOR FILING DATE: 1998-01-30  
24 <150> PRIOR APPLICATION NUMBER: 60/098,987  
25 <151> PRIOR FILING DATE: 1998-09-02  
27 <160> NUMBER OF SEQ ID NOS: 30  
29 <170> SOFTWARE: PatentIn Ver. 2.0

## ERRORED SEQUENCES

1466 <210> SEQ ID NO: 16  
1467 <211> LENGTH: 1207  
1468 <212> TYPE: PRT  
1469 <213> ORGANISM: Homo sapiens  
1471 <400> SEQUENCE: 16  
1472 Met Gln Phe Leu Glu Glu Val Gln Pro Tyr Arg Ala Leu Lys His Ser  
1473 1 5 10 15  
1475 Asn Leu Leu Gln Cys Leu Ala Gln Cys Ala Glu Val Thr Pro Tyr Leu  
1476 20 25 30  
1478 Leu Val Met Glu Phe Cys Pro Leu Gly Asp Leu Lys Gly Tyr Leu Arg  
1479 35 40 45  
1481 Ser Cys Arg Val Ala Glu Ser Met Ala Pro Asp Pro Arg Thr Leu Gln  
1482 50 55 60  
1484 Arg Met Ala Cys Glu Val Ala Cys Gly Val Leu His Leu His Arg Asn  
1485 65 70 75 80  
1487 Asn Phe Val His Ser Asp Leu Ala Leu Arg Asn Cys Leu Leu Thr Ala  
1488 85 90 95  
1490 Asp Leu Thr Val Lys Ile Gly Asp Tyr Gly Leu Ala His Cys Lys Tyr  
1491 100 105 110  
1493 Arg Glu Asp Tyr Phe Val Thr Ala Asp Gln Leu Trp Val Pro Leu Arg  
1494 115 120 125  
1496 Trp Ile Ala Pro Glu Leu Val Asp Glu Val His Ser Asn Leu Leu Val  
1497 130 135 140  
1499 Val Asp Gln Thr Lys Ser Gly Asn Val Trp Ser Leu Gly Val Thr Ile  
1500 145 150 155 160

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/942,252

DATE: 09/18/2001  
TIME: 11:25:53

Input Set : A:\GENO 2002 Sequence Listing.txt  
Output Set: N:\CRF3\09182001\I942252.raw

1502 Trp Glu Leu Phe Glu Leu Gly Thr Gln Pro Tyr Pro Gln His Ser Asp  
1503 165 170 175  
1505 Gln Gln Val Leu Ala Tyr Thr Val Arg Glu Gln Gln Leu Lys Leu Pro  
1506 180 185 190  
1508 Lys Pro Gln Leu Gln Leu Thr Leu Ser Asp Arg Trp Tyr Glu Val Met  
1509 195 200 205  
1511 Gln Phe Cys Trp Leu Gln Pro Glu Gln Arg Pro Thr Ala Glu Glu Val  
1512 210 215 220  
1514 His Leu Leu Leu Ser Tyr Leu Cys Ala Lys Gly Ala Thr Glu Ala Glu  
1515 225 230 235 240  
1517 Glu Glu Phe Glu Arg Arg Trp Arg Ser Leu Arg Pro Gly Gly Gly Gly  
1518 245 250 255  
1520 Val Gly Pro Gly Pro Gly Ala Ala Gly Pro Met Leu Gly Gly Val Val  
1521 260 265 270  
1523 Glu Leu Ala Ala Ala Ser Ser Phe Pro Leu Leu Glu Gln Phe Ala Gly  
1524 275 280 285  
1526 Asp Gly Phe His Ala Asp Gly Asp Asp Val Leu Thr Val Thr Glu Thr  
1527 290 295 300  
1529 Ser Arg Gly Leu Asn Phe Glu Tyr Lys Trp Glu Ala Gly Arg Gly Ala  
1530 305 310 315 320  
1532 Glu Ala Phe Pro Ala Thr Leu Ser Pro Gly Arg Thr Ala Arg Leu Gln  
1533 325 330 335  
1535 Glu Leu Cys Ala Pro Asp Gly Ala Pro Pro Gly Val Val Pro Val Leu  
1536 340 345 350  
1538 Ser Ala His Ser Pro Ser Leu Gly Ser Glu Tyr Phe Ile Arg Leu Glu  
1539 355 360 365  
1541 Glu Ala Ala Pro Ala Ala Gly His Asp Pro Asp Cys Ala Gly Cys Ala  
1542 370 375 380  
1544 Pro Ser Pro Pro Ala Thr Ala Asp Gln Asp Asp Ser Asp Gly Ser  
1545 385 390 395 400  
1547 Thr Ala Ala Ser Leu Ala Met Glu Pro Leu Leu Gly His Gly Pro Pro  
1548 405 410 415  
1550 Val Asp Val Pro Trp Gly Arg Gly Asp His Tyr Pro Arg Arg Ser Leu  
1551 420 425 430  
1553 Ala Arg Asp Pro Leu Cys Pro Ser Arg Ser Pro Ser Pro Ser Ala Gly  
1554 435 440 445  
1556 Pro Leu Ser Leu Ala Glu Gly Ala Glu Asp Ala Asp Trp Gly Val  
1557 450 455 460  
1559 Ala Ala Phe Cys Pro Ala Phe Phe Glu Asp Pro Leu Gly Thr Ser Pro  
1560 465 470 475 480  
1562 Leu Gly Ser Ser Gly Ala Pro Pro Leu Pro Leu Thr Gly Glu Asp Glu  
1563 485 490 495  
1565 Leu Glu Glu Val Gly Ala Arg Arg Ala Ala Gln Arg Gly His Trp Arg  
1566 500 505 510  
1568 Ser Asn Val Ser Ala Asn Asn Ser Gly Ser Arg Cys Pro Glu Ser  
1569 515 520 525  
1571 Trp Asp Pro Val Ser Ala Gly Cys His Ala Glu Gly Cys Pro Ser Pro  
1572 530 535 540  
1574 Lys Gln Thr Pro Arg Ala Ser Pro Glu Pro Gly Tyr Pro Gly Glu Pro

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/942,252

DATE: 09/18/2001  
TIME: 11:25:53

Input Set : A:\GENO 2002 Sequence Listing.txt  
Output Set: N:\CRF3\09182001\I942252.raw

1575	545	550	555	560																
1577	Leu	Leu	Gly	Leu	Gln	Ala	Ala	Ser	Ala	Gln	Glu	Pro	Gly	Cys	Cys	Pro				
1578																	565	570	575	
1580	Gly	Leu	Pro	His	Leu	Cys	Ser	Ala	Gln	Gly	Leu	Ala	Pro	Ala	Pro	Cys				
1581																	580	585	590	
1583	Leu	Val	Thr	Pro	Ser	Trp	Thr	Glu	Thr	Ala	Ser	Ser	Gly	Gly	Asp	His				
1584																	595	600	605	
1586	Pro	Gln	Ala	Glu	Pro	Lys	Leu	Ala	Thr	Glu	Ala	Glu	Gly	Thr	Thr	Gly				
1587																	610	615	620	
1589	Pro	Arg	Leu	Pro	Leu	Pro	Ser	Val	Pro	Ser	Pro	Ser	Gln	Glu	Gly	Ala				
1590																	625	630	635	640
1592	Pro	Leu	Pro	Ser	Glu	Glu	Ala	Ser	Ala	Pro	Asp	Ala	Pro	Asp	Ala	Leu				
1593																	645	650	655	
1595	Pro	Asp	Ser	Pro	Thr	Pro	Ala	Thr	Gly	Gly	Glu	Val	Ser	Ala	Ile	Lys				
1596																	660	665	670	
1598	Leu	Ala	Ser	Ala	Leu	Asn	Gly	Ser	Ser	Ser	Ser	Pro	Glu	Val	Glu	Ala				
1599																	675	680	685	
1601	Pro	Ser	Ser	Glu	Asp	Glu	Asp	Thr	Ala	Glu	Ala	Thr	Ser	Gly	Ile	Phe				
1602																	690	695	700	
1604	Thr	Asp	Thr	Ser	Ser	Asp	Gly	Leu	Gln	Ala	Arg	Arg	Pro	Asp	Val	Val				
1605																	705	710	715	720
1607	Pro	Ala	Phe	Arg	Ser	Leu	Gln	Lys	Gln	Val	Gly	Thr	Pro	Asp	Ser	Leu				
1608																	725	730	735	
1610	Asp	Ser	Leu	Asp	Ile	Pro	Ser	Ser	Ala	Ser	Asp	Gly	Gly	Tyr	Glu	Val				
1611																	740	745	750	
1613	Phe	Ser	Pro	Ser	Ala	Thr	Gly	Pro	Ser	Gly	Gly	Gln	Pro	Arg	Ala	Leu				
1614																	755	760	765	
1616	Asp	Ser	Gly	Tyr	Asp	Thr	Glu	Asn	Tyr	Glu	Ser	Pro	Glu	Phe	Val	Leu				
1617																	770	775	780	
1619	Lys	Glu	Ala	Gln	Glu	Gly	Cys	Glu	Pro	Gln	Ala	Phe	Ala	Glu	Leu	Ala				
1620																	785	790	795	800
1622	Ser	Glu	Gly	Gly	Pro	Gly	Pro	Glu	Thr	Arg	Leu	Ser	Thr	Ser	Leu					
1623																	805	810	815	
1625	Ser	Gly	Leu	Asn	Glu	Lys	Asn	Pro	Tyr	Arg	Asp	Ser	Ala	Tyr	Phe	Ser				
1626																	820	825	830	
1628	Asp	Leu	Glu	Ala	Glu	Ala	Glu	Ala	Thr	Ser	Gly	Pro	Glu	Lys	Lys	Cys				
1629																	835	840	845	
1631	Gly	Gly	Asp	Arg	Ala	Pro	Gly	Pro	Glu	Leu	Gly	Leu	Pro	Ser	Thr	Gly				
1632																	850	855	860	
1634	Gln	Pro	Ser	Glu	Gln	Val	Cys	Leu	Arg	Pro	Gly	Val	Ser	Gly	Glu	Ala				
1635																	865	870	875	880
1637	Gln	Gly	Ser	Gly	Pro	Gly	Glu	Val	Leu	Pro	Pro	Leu	Leu	Gln	Leu	Glu				
1638																	885	890	895	
1640	Gly	Ser	Ser	Pro	Glu	Pro	Ser	Thr	Cys	Pro	Ser	Gly	Leu	Val	Pro	Glu				
1641																	900	905	910	
1643	Pro	Pro	Glu	Pro	Gln	Gly	Pro	Ala	Lys	Val	Arg	Pro	Gly	Pro	Ser	Pro				
1644																	915	920	925	
1646	Ser	Cys	Ser	Gln	Phe	Phe	Leu	Leu	Thr	Pro	Val	Pro	Leu	Arg	Ser	Glu				
1647																	930	935	940	

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/942,252

DATE: 09/18/2001  
TIME: 11:25:53

Input Set : A:\GENO 2002 Sequence Listing.txt  
Output Set: N:\CRF3\09182001\I942252.raw

1649	Gly Asn Ser Ser Glu Phe Gln Gly Pro Pro	Gly Leu Leu Ser Gly Pro		
1650	945	950	955	960
1652	Ala Pro Gln Lys Arg Met Gly Gly Pro	Gly Thr Pro Arg Ala Pro Leu		
1653	965	970	975	
1655	Arg Leu Ala Leu Pro Gly Leu Pro Ala	Ala Leu Glu Gly Arg Pro Glu		
1656	980	985	990	
1658	Glu Glu Glu Asp Ser Glu Asp Ser Asp	Glu Ser Asp Glu Glu Leu		
1659	995	1000	1005	
1661	Arg Cys Tyr Ser Val Gln Glu Pro Ser	Glu Asp Ser Glu Glu Ala		
1662	1010	1015	1020	
1664	Pro Ala Val Pro Val Val Ala Glu Ser	Gln Ser Ala Arg Asn Leu		
E--> 1665	025 1025	1030	1035	1040
1667	Arg Ser Leu Leu Lys Met Pro Ser Leu	Leu Ser Glu Thr Phe Cys Glu		
1668	1045	1050	1055	
1670	Asp Leu Glu Arg Lys Lys Ala Val Ser	Phe Phe Asp Asp Val Thr		
1671	1060	1065	1070	
1673	Val Tyr Leu Phe Asp Gln Glu Ser	Pro Thr Arg Glu Leu Gly Glu Pro		
1674	1075	1080	1085	
1676	Phe Pro Gly Ala Lys Glu Ser Pro	Pro Thr Phe Leu Arg Gly Ser Pro		
1677	1090	1095	1100	
1679	Gly Ser Pro Ser Ala Pro Asn Arg Pro	Gln Gln Ala Asp Gly Ser Pro		
E--> 1680	105 1105	1110	1115	1120
1682	Asn Gly Ser Thr Ala Glu Glu Gly	Gly Phe Ala Trp Asp Asp Asp		
1683	1125	1130	1135	
1685	Phe Pro Leu Met Thr Ala Lys Ala Ala	Phe Ala Met Ala Leu Asp Pro		
1686	1140	1145	1150	
1688	Ala Ala Pro Ala Pro Ala Ala Pro	Thr Pro Thr Pro Ala Pro Phe Ser		
1689	1155	1160	1165	
1691	Arg Phe Thr Val Ser Pro Ala Pro	Thr Ser Arg Phe Ser Ile Thr His		
1692	1170	1175	1180	
1694	Val Ser Asp Ser Asp Ala Glu Ser	Lys Arg Gly Pro Glu Ala Gly Ala		
E--> 1695	185 1185	1190	1195	1200
1697	Gly Gly Glu Ser Lys Glu Ala			
1698	1205			

When  
numbering  
first amino  
acid on a line,  
begin number  
directly under  
first letter of  
amino acid  
I.G. Pro  
1025

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/942,252

DATE: 09/18/2001

TIME: 11:25:54

Input Set : A:\GENO 2002 Sequence Listing.txt  
Output Set: N:\CRF3\09182001\I942252.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1665 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16

M:332 Repeated in SeqNo=16